10/ 544, 265

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("7067519").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/31 14:39
L2	124	(544/91,544/93,544/94,544/249, 544/250).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/07/31 14:39
L3	0	("l2and2-pyrrolidone").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/31 14:40
L4	0	("l2andpyrrolidone").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/31 14:40

10/544,265 CAPLUS

~~10/513699~~

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LOGINID:SSPTAEAL1624

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 3	MAR 16	CASREACT coverage extended
NEWS 4	MAR 20	MARPAT now updated daily
NEWS 5	MAR 22	LWPI reloaded
NEWS 6	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS 7	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS 8	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS 9	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS 10	APR 30	CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 11	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS 12	MAY 01	New CAS web site launched
NEWS 13	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 14	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 15	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS 16	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS 17	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS 18	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents
NEWS 19	JUN 27	CA/CAplus enhanced with pre-1967 CAS Registry Numbers
NEWS 20	JUN 29	STN Viewer now available
NEWS 21	JUN 29	STN Express, Version 8.2, now available
NEWS 22	JUL 02	LEMBASE coverage updated
NEWS 23	JUL 02	LMEDLINE coverage updated
NEWS 24	JUL 02	SCISEARCH enhanced with complete author names
NEWS 25	JUL 02	CHEMCATS accession numbers revised
NEWS 26	JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS 27	JUL 16	CAplus enhanced with French and German abstracts
NEWS 28	JUL 18	CA/CAplus patent coverage enhanced
NEWS 29	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 30	JUL 30	USGENE now available on STN

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
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FILE 'HOME' ENTERED AT 12:53:54 ON 31 JUL 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.05	1.05

FILE 'REGISTRY' ENTERED AT 12:57:07 ON 31 JUL 2007
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STRUCTURE FILE UPDATES: 30 JUL 2007 HIGHEST RN 943719-65-1
DICTIONARY FILE UPDATES: 30 JUL 2007 HIGHEST RN 943719-65-1

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

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http://www.cas.org/support/stngen/stndoc/properties.html

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L1 STRUCTURE UPLOADED

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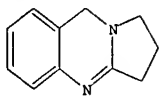

Structure attributes must be viewed using STN Express query preparation.

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FULL SCREEN SEARCH COMPLETED -     30115 TO ITERATE

100.0% PROCESSED     30115 ITERATIONS                          3551 ANSWERS
SEARCH TIME: 00.00.01

L2          3551 SEA SSS FUL L1

=> file caplus
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FILE 'CAPLUS' ENTERED AT 12:57:32 ON 31 JUL 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 31 Jul 2007  VOL 147 ISS 6
FILE LAST UPDATED: 30 Jul 2007  (20070730/ED)

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=> s l2 full
L3          1143 L2

=> s l3 and 2-pyrrolidone
       9237274 2
         23762 PYRROLIDONE
           753 PYRROLIDONES
         24000 PYRROLIDONE
                 (PYRROLIDONE OR PYRROLIDONES)
         14202 2-PYRROLIDONE
                 (2(W)PYRROLIDONE)
L4             8 L3 AND 2-PYRROLIDONE

=> d ibib abs hitstr tot

L4   ANSWER 1 OF 8  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2004:675749  CAPLUS
DOCUMENT NUMBER:          141:207415
TITLE:                    Methods for producing quinazoline alkaloids
```


INSTANT CASE


```
INVENTOR(S):              Moormann, Joachim; Hoffmann, Hans-Rainer; Matusch,
                          Rudolf
PATENT ASSIGNEE(S):       HF Arzneimittelforschung G.m.b.H., Germany
SOURCE:                   PCT Int. Appl., 23 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 German
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

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     WO 2004069836         A1    20040819    WO 2004-EP485            20040122
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            CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
            GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
            LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO
         RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
            BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
            MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
            GQ, GW, ML, MR, NE, SN, TD, TG
     DE 10304141           A1    20040826    DE 2003-10304141         20030203
     DE 10304141           B4    20060309
     AU 2004208873         A1    20040819    AU 2004-208873           20040122
     CA 2514945            A1    20040819    CA 2004-2514945          20040122
     EP 1590351            A1    20051102    EP 2004-704202           20040122
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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     BR 2004007012         A     20060110    BR 2004-7012             20040122
     CN 1745084            A     20060308    CN 2004-80003418         20040122
     JP 2006516578         T     20060706    JP 2006-501573           20040122
     NO 2005003689         A     20050729    NO 2005-3689             20050729
     MX 2005PA08179        A     20060217    MX 2005-PA8179           20050729
     US 2006084669         A1    20060420    US 2005-544265           20050802
PRIORITY APPLN. INFO.:                        DE 2003-10304141    A    20030203
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OTHER SOURCE(S):          CASREACT 141:207415
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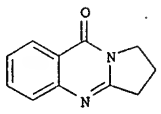

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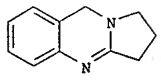

II

AB The invention relates to a method for producing alkaloid (I) by reacting isatoic anhydride with 2-pyrrolidone, whereby a surplus of 2-pyrrolidone, in relation to isatoic anhydride, is used. The invention also relates to a method for producing alkaloid (II), comprised of production of I, reduction reaction to obtain II in the form of a salt and release of II from the salt.

```
IT   530-53-0P 144053-18-9P 740847-25-0P
     RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic
     preparation); PREP (Preparation); RACT (Reactant or reagent)
        (methods for producing quinazoline alkaloids)
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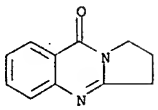
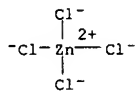
RN 530-53-0 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 2,3-dihydro- (CA INDEX NAME)



RN 144053-18-9 CAPLUS
CN Zincate(2-), tetrachloro-, (T-4)-, dihydrogen, compd. with 1,2,3,9-tetrahydropyrrolo[2,1-b]quinazoline (1:1) (9CI) (CA INDEX NAME)

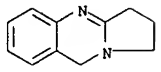
CM 1

CRN 18923-63-2
CMF Cl4 Zn . 2 H
CCI CCS



CM 2

CRN 495-59-0
CMF C11 H12 N2



RN 740847-25-0 CAPLUS
CN Pyrrolo[2,1-b]quinazoline, 1,2,3,9-tetrahydro-, sulfate (1:1) (9CI) (CA INDEX NAME)

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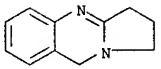
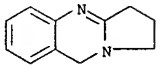
CRN 7664-93-9
CMF H2 O4 S

CM 2

CRN 495-59-0
CMF C11 H12 N2



IT 495-59-0P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(methods for producing quinazoline alkaloids)
RN 495-59-0 CAPLUS
CN Pyrrolo[2,1-b]quinazoline, 1,2,3,9-tetrahydro- (CA INDEX NAME)



L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:41282 CAPLUS
DOCUMENT NUMBER: 140:94061
TITLE: Preparation of 7,8,9,10-tetrahydro-6H-azepino, 6,7,8,9-tetrahydro-pyrido and 2,3-dihydro-2H-pyrrolo[2,1-b]-quinazolinone derivatives as orexin receptor antagonists
INVENTOR(S): Aissaoui, Hamed; Clozel, Martine; Fischli, Walter; Koberstein, Ralf; Sifferlen, Thierry; Weller, Thomas
PATENT ASSIGNEE(S): Actelion Pharmaceuticals Ltd., Switz.
SOURCE: PCT Int. Appl., 55 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004004733	A1	20040115	WO 2003-EP7297	20030708

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,

PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2460051	A1	20040115	CA 2003-2460051		20030708
AU 2003246657	A1	20040123	AU 2003-246657		20030708
CN 1556705	A	20041222	CN 2003-801104		20030708
EP 1521583	A1	20050413	EP 2003-762653		20030708
EP 1521583	B1	20070110			

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IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

JP 2005532381	T	20051027	JP 2004-518740		20030708
NZ 538029	A	20060831	NZ 2003-538029		20030708
US 2005009852	A1	20050113	US 2004-489350		20040816
US 7067519	B2	20060627			
IN 2004CN03040	A	20060217	IN 2004-CN3040		20041231
ZA 2005000026	A	20051020	ZA 2005-26		20050103
BR 2005000016	A	20060905	BR 2005-16		20050106
NO 2005000668	A	20050405	NO 2005-668		20050208
PRIORITY APPLN. INFO.:			WO 2002-EP7608	A	20020709
			WO 2003-EP7297	W	20030708

OTHER SOURCE(S): MARPAT 140:94061
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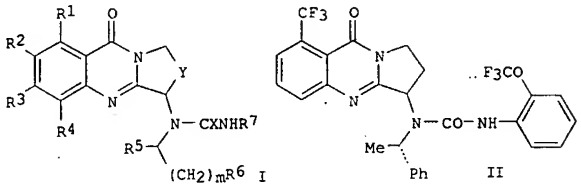

AB Novel 7,8,9,10-tetrahydro-6H-azepino, 6,7,8,9-tetrahydro-pyrido and 2,3-dihydro-2H-pyrrolo[2,1-b]-quinazolinone derivs. of formula I [R1-R4 = H, CN, nitro, halo, OH, alkyl, etc.; R5 = aryl, aralkyl, alkyl, etc.; R6 = H, alkyl, CF3, etc.; R7 = aryl, aralkyl, alkyl, cycloalkyl, etc.; X = O, S; Y = (CH2)n; m = 0-3; n = 1-3] are prepared The invention also concerns related aspects including processes for the preparation of the compds., pharmaceutical compns. containing one or more of those compds. and especially their use as orexin receptor antagonists. Thus, II was prepared, and had IC50 of 12 nM and 16 nM against orexin-1 receptor and orexin-2 receptor, resp.

IT 642491-20-1P 642491-22-3P 642491-24-5P
642491-26-7P 642491-27-8P 642491-28-9P
642491-30-3P 642491-31-4P 642491-32-5P
642491-33-6P 642491-34-7P 642491-35-8P
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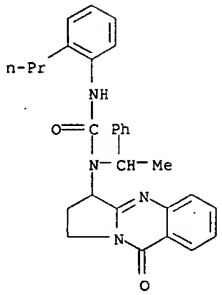
642492-16-8P 642492-17-9P 642492-18-0P
642492-19-1P 642492-20-4P 642492-21-5P
642492-22-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of azepino-, pyrido- and pyrrolo-quinazolinone derivs. as orexin receptor antagonists)

RN 642491-20-1 CAPLUS
CN Urea, N-(1-phenylethyl)-N'-(2-propylphenyl)-N-(1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)- (9CI) (CA INDEX NAME)



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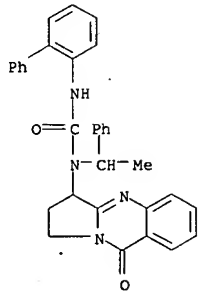
CN Urea, N'-[1,1'-biphenyl]-2-yl-N-(1-phenylethyl)-N-(1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)- (9CI) (CA INDEX NAME)



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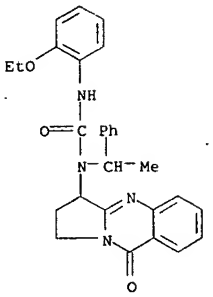
CN Urea, N'-(2-ethoxyphenyl)-N-(1-phenylethyl)-N-(1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)- (9CI) (CA INDEX NAME)



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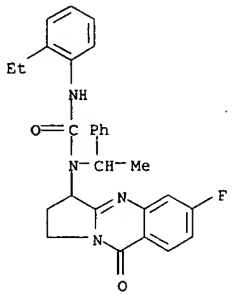
CN Urea, N'-(2-ethylphenyl)-N-(6-fluoro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)



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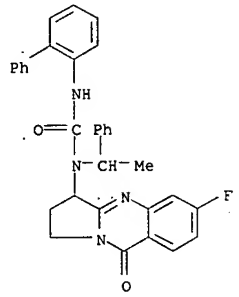
CN Urea, N'-[1,1'-biphenyl]-2-yl-N-(6-fluoro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)



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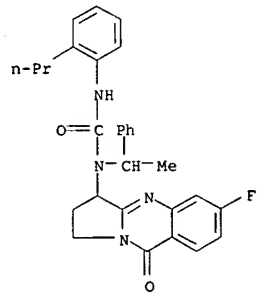
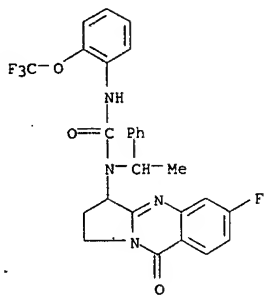
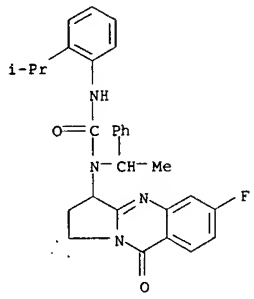


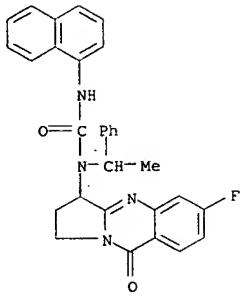
RN 642491-30-3 CAPLUS
CN Urea, N-(6-fluoro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-(1-phenylethyl)-N'-[2-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



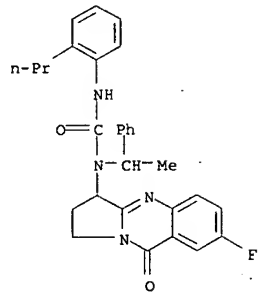
RN 642491-31-4 CAPLUS
CN Urea, N-(6-fluoro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N'-[2-(1-methylethyl)phenyl]-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)



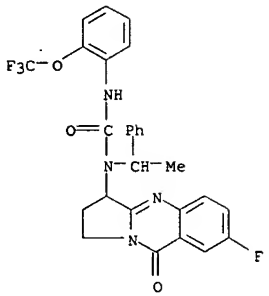
RN 642491-32-5 CAPLUS
CN Urea, N-(6-fluoro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N'-1-naphthalenyl-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)



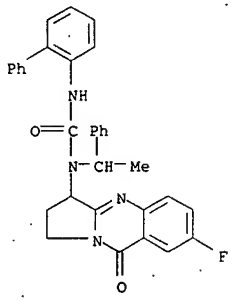
RN 642491-33-6 CAPLUS
CN Urea, N-(7-fluoro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-(1-phenylethyl)-N'-(2-propylphenyl)- (9CI) (CA INDEX NAME)



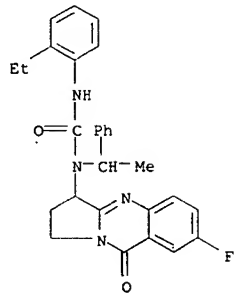
RN 642491-34-7 CAPLUS
CN Urea, N-(7-fluoro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-(1-phenylethyl)-N'-[2-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



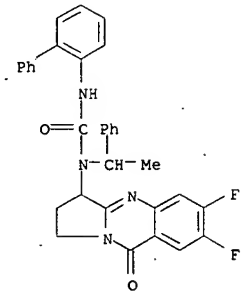
RN 642491-35-8 CAPLUS
CN Urea, N'-[1,1'-biphenyl]-2-yl-N-(7-fluoro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)



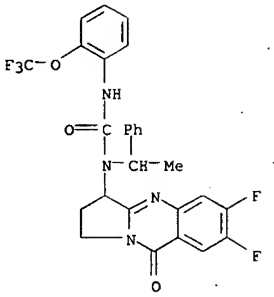
RN 642491-36-9 CAPLUS
CN Urea, N'-(2-ethylphenyl)-N-(7-fluoro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)



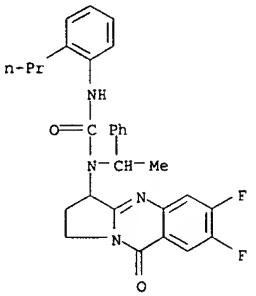
RN 642491-37-0 CAPLUS
CN Urea, N'-[1,1'-biphenyl]-2-yl-N-(6,7-difluoro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)



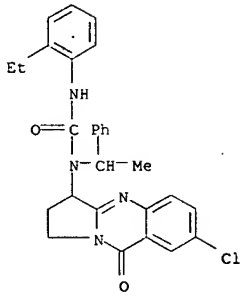
RN 642491-38-1 CAPLUS
CN Urea, N-(6,7-difluoro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-(1-phenylethyl)-N'-[2-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



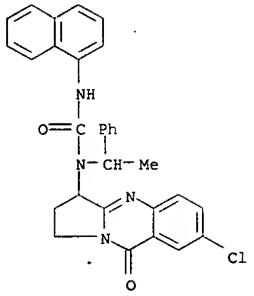
RN 642491-39-2 CAPLUS
CN Urea, N-(6,7-difluoro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-(1-phenylethyl)-N'-(2-propylphenyl)- (9CI) (CA INDEX NAME)



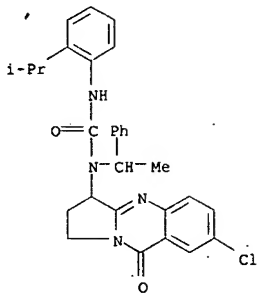
RN 642491-40-5 CAPLUS
CN Urea, N-(7-chloro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N'-(2-ethylphenyl)-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)



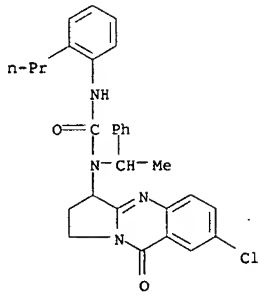
RN 642491-41-6 CAPLUS
CN Urea, N-(7-chloro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N'-1-naphthalenyl-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)



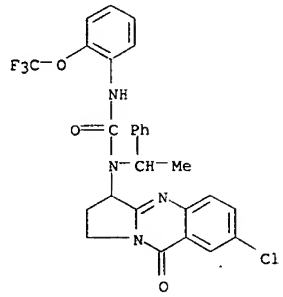
RN 642491-42-7 CAPLUS
CN Urea, N-(7-chloro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N'-[2-(1-methylethyl)phenyl]-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)



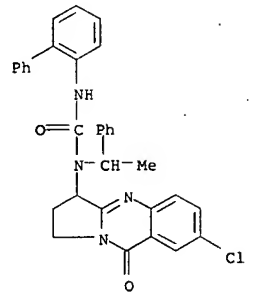
RN 642491-43-8 CAPLUS
CN Urea, N-(7-chloro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-(1-phenylethyl)-N'-(2-propylphenyl)- (9CI) (CA INDEX NAME)



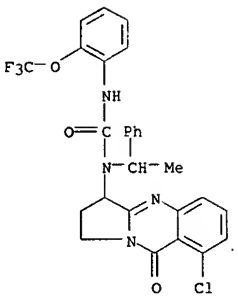
RN 642491-44-9 CAPLUS
CN Urea, N-(7-chloro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-(1-phenylethyl)-N'-[2-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



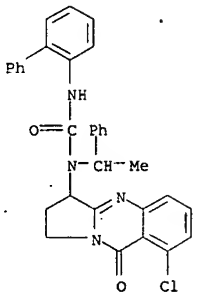
RN 642491-45-0 CAPLUS
CN Urea, N'-[1,1'-biphenyl]-2-yl-N-(7-chloro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)



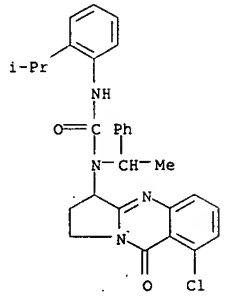
RN 642491-64-3 CAPLUS
CN Urea, N-(8-chloro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-(1-phenylethyl)-N'-[2-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



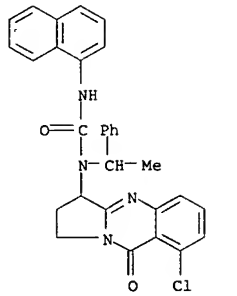
RN 642491-66-5 CAPLUS
CN Urea, N'-[1,1'-biphenyl]-2-yl-N-(8-chloro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)



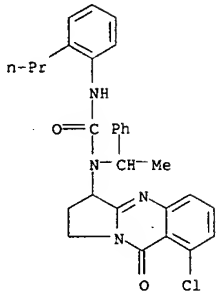
RN 642491-68-7 CAPLUS
CN Urea, N-(8-chloro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N'-[2-(1-methylethyl)phenyl]-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)



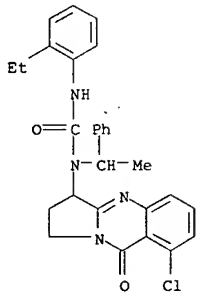
RN 642491-70-1 CAPLUS
CN Urea, N-(8-chloro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N'-1-naphthalenyl-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)



RN 642491-74-5 CAPLUS
CN Urea, N-(8-chloro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-(1-phenylethyl)-N'-(2-propylphenyl)- (9CI) (CA INDEX NAME)

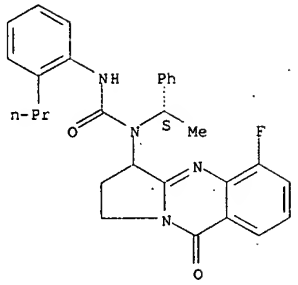


RN 642491-75-6 CAPLUS
CN Urea, N-(8-chloro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N'-(2-ethylphenyl)-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)



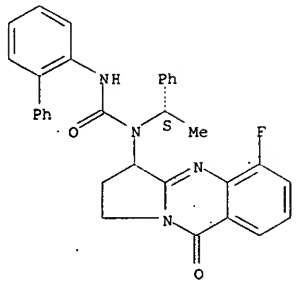
RN 642491-76-7 CAPLUS
CN Urea, N-(5-fluoro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-[(1S)-1-phenylethyl]-N'-(2-propylphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



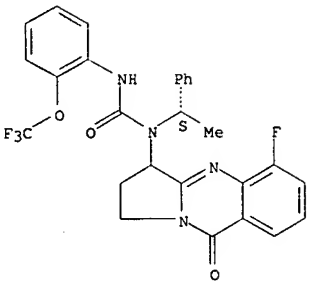
RN 642491-77-8 CAPLUS
CN Urea, N'-[1,1'-biphenyl]-2-yl-N-(5-fluoro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-[(1S)-1-phenylethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



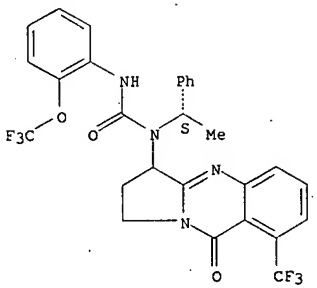
RN 642491-78-9 CAPLUS
CN Urea, N-(5-fluoro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-[(1S)-1-phenylethyl]-N'-[2-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



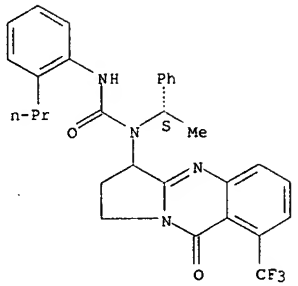
RN 642491-79-0 CAPLUS
CN Urea, N-[(1S)-1-phenylethyl]-N-[1,2,3,9-tetrahydro-9-oxo-8-(trifluoromethyl)pyrrolo[2,1-b]quinazolin-3-yl]-N'-[2-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



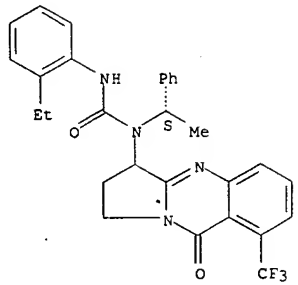
RN 642491-80-3 CAPLUS
CN Urea, N-[(1S)-1-phenylethyl]-N'-(2-propylphenyl)-N-[1,2,3,9-tetrahydro-9-oxo-8-(trifluoromethyl)pyrrolo[2,1-b]quinazolin-3-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



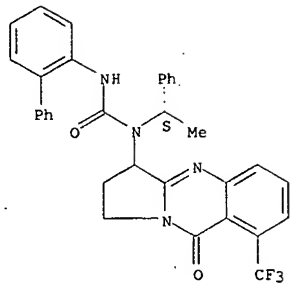
RN 642491-81-4 CAPLUS
CN Urea, N'-(2-ethylphenyl)-N-[(1S)-1-phenylethyl]-N-[1,2,3,9-tetrahydro-9-oxo-8-(trifluoromethyl)pyrrolo[2,1-b]quinazolin-3-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

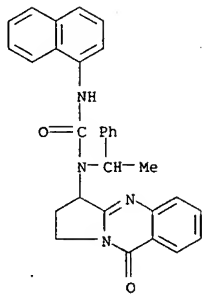


RN 642491-82-5 CAPLUS
CN Urea, N'-[1,1'-biphenyl]-2-yl-N-[(1S)-1-phenylethyl]-N-[1,2,3,9-tetrahydro-9-oxo-8-(trifluoromethyl)pyrrolo[2,1-b]quinazolin-3-yl]- (9CI) (CA INDEX NAME)

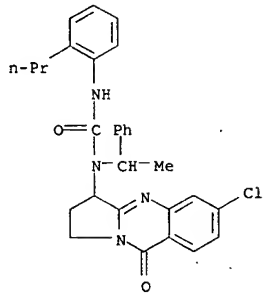
Absolute stereochemistry.



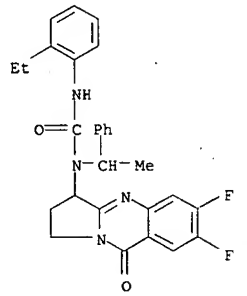
RN 642492-15-7 CAPLUS
CN Urea, N'-1-naphthalenyl-N-(1-phenylethyl)-N-(1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)- (9CI) (CA INDEX NAME)



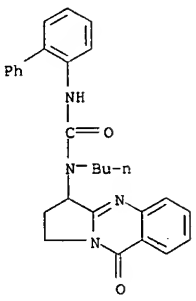
RN 642492-16-8 CAPLUS
CN Urea, N-(6-chloro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N-(1-phenylethyl)-N'-(2-propylphenyl)- (9CI) (CA INDEX NAME)



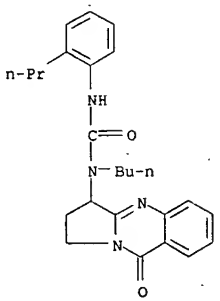
RN 642492-17-9 CAPLUS
CN Urea, N-(6,7-difluoro-1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)-N'-(2-ethylphenyl)-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)



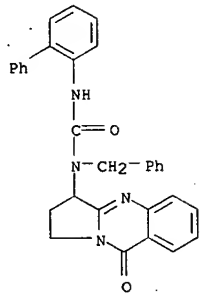
RN 642492-18-0 CAPLUS
CN Urea, N'-[1,1'-biphenyl]-2-yl-N-butyl-N-(1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)- (9CI) (CA INDEX NAME)



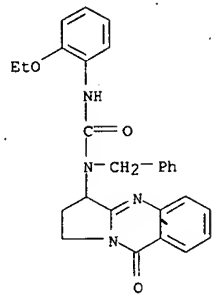
RN 642492-19-1 CAPLUS
CN Urea, N-butyl-N'-(2-propylphenyl)-N-(1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)- (9CI) (CA INDEX NAME)



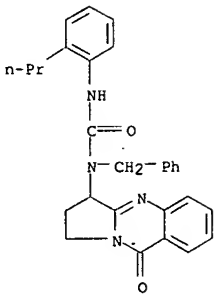
RN 642492-20-4 CAPLUS
CN Urea, N'-[1,1'-biphenyl]-2-yl-N-(phenylmethyl)-N-(1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)- (9CI) (CA INDEX NAME)



RN 642492-21-5 CAPLUS
CN Urea, N'-(2-ethoxyphenyl)-N-(phenylmethyl)-N-(1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)- (9CI) (CA INDEX NAME)



RN 642492-22-6 CAPLUS
CN Urea, N-(phenylmethyl)-N'-(2-propylphenyl)-N-(1,2,3,9-tetrahydro-9-oxopyrrolo[2,1-b]quinazolin-3-yl)- (9CI) (CA INDEX NAME)



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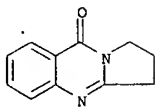
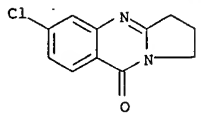
71540-68-6P 380638-36-8P 642491-83-6P
642491-84-7P 642491-85-8P 642491-86-9P
642491-87-0P 642491-88-1P 642491-89-2P
642491-90-5P 642491-91-6P 642491-92-7P
642491-93-8P 642491-94-9P 642491-95-0P
642491-96-1P 642491-97-2P 642491-98-3P
642491-99-4P 642492-00-0P 642492-01-1P
642492-02-2P 642492-03-3P 642492-04-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of azepino-, pyrido- and pyrrolo-quinazolinone derivs. as orexin receptor antagonists)

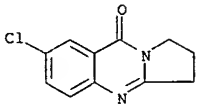
RN 530-53-0 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 2,3-dihydro- (CA INDEX NAME)



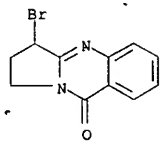
RN 55727-49-6 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 6-chloro-2,3-dihydro- (9CI) (CA INDEX NAME)



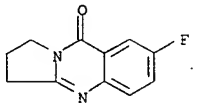
RN 60811-39-4 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 7-chloro-2,3-dihydro- (CA INDEX NAME)



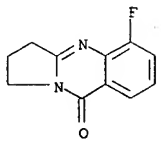
RN 71540-68-6 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 3-bromo-2,3-dihydro- (CA INDEX NAME)



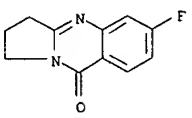
RN 380638-36-8 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 7-fluoro-2,3-dihydro- (9CI) (CA INDEX NAME)



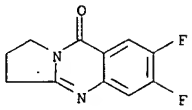
RN 642491-83-6 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 5-fluoro-2,3-dihydro- (9CI) (CA INDEX NAME)



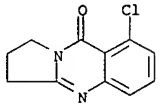
RN 642491-84-7 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 6-fluoro-2,3-dihydro- (9CI) (CA INDEX NAME)



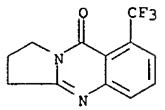
RN 642491-85-8 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 6,7-difluoro-2,3-dihydro- (9CI) (CA INDEX NAME)



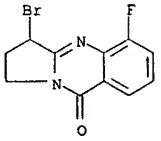
RN 642491-86-9 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 8-chloro-2,3-dihydro- (9CI) (CA INDEX NAME)



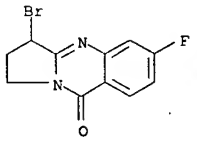
RN 642491-87-0 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 2,3-dihydro-8-(trifluoromethyl)- (9CI) (CA INDEX NAME)



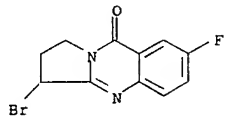
RN 642491-88-1 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 3-bromo-5-fluoro-2,3-dihydro- (9CI) (CA INDEX NAME)



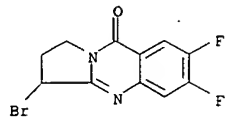
RN 642491-89-2 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 3-bromo-6-fluoro-2,3-dihydro- (9CI) (CA INDEX NAME)



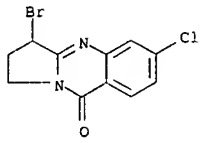
RN 642491-90-5 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 3-bromo-7-fluoro-2,3-dihydro- (9CI) (CA INDEX NAME)



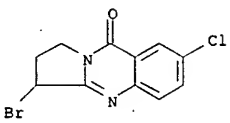
RN 642491-91-6 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 3-bromo-6,7-difluoro-2,3-dihydro- (9CI) (CA INDEX NAME)



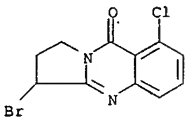
RN 642491-92-7 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 3-bromo-6-chloro-2,3-dihydro- (9CI) (CA INDEX NAME)



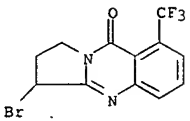
RN 642491-93-8 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 3-bromo-7-chloro-2,3-dihydro- (CA INDEX NAME)



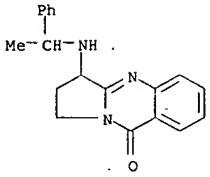
RN 642491-94-9 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 3-bromo-8-chloro-2,3-dihydro- (9CI) (CA INDEX NAME)



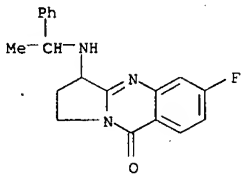
RN 642491-95-0 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 3-bromo-2,3-dihydro-8-(trifluoromethyl)- (9CI) (CA INDEX NAME)



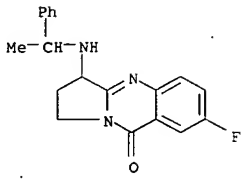
RN 642491-96-1 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 2,3-dihydro-3-[(1-phenylethyl)amino]- (9CI) (CA INDEX NAME)



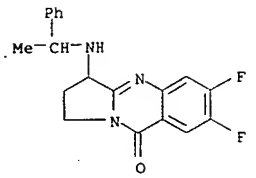
RN 642491-97-2 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 6-fluoro-2,3-dihydro-3-[(1-phenylethyl)amino]- (9CI) (CA INDEX NAME)



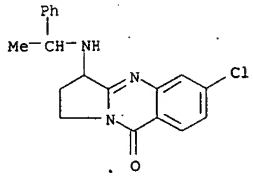
RN 642491-98-3 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 7-fluoro-2,3-dihydro-3-[(1-phenylethyl)amino]- (9CI) (CA INDEX NAME)



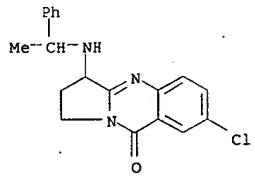
RN 642491-99-4 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 6,7-difluoro-2,3-dihydro-3-[(1-phenylethyl)amino]- (9CI) (CA INDEX NAME)



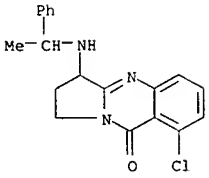
RN 642492-00-0 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 6-chloro-2,3-dihydro-3-[(1-phenylethyl)amino]- (9CI) (CA INDEX NAME)



RN 642492-01-1 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 7-chloro-2,3-dihydro-3-[(1-phenylethyl)amino]- (9CI) (CA INDEX NAME)

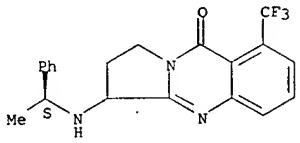


RN 642492-02-2 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 8-chloro-2,3-dihydro-3-[(1-phenylethyl)amino]- (9CI) (CA INDEX NAME)



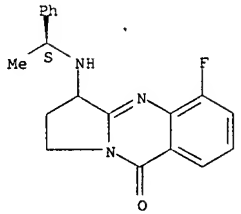
RN 642492-03-3 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 2,3-dihydro-3-[[(1S)-1-phenylethyl]amino]-8-(trifluoromethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 642492-04-4 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 5-fluoro-2,3-dihydro-3-[[(1S)-1-phenylethyl]amino]- (9CI) (CA INDEX NAME)

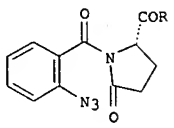
Absolute stereochemistry.



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:187229 CAPLUS
DOCUMENT NUMBER: 128:270591
TITLE: Chemoselectivity in the intramolecular aza-Wittig reaction of N-[2-(trisubstituted phosphoranylidene)aminobenzoyl]-2-pyrrolidone-5-carboxylic acid derivatives
AUTHOR(S): Okawa, Tomohiro; Sugimori, Toshiyuki; Eguchi, Shoji;

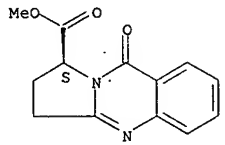
Kakehi, Akikazu
CORPORATE SOURCE: Dep. Molecular Design Eng., Grad. Sch. Eng., Nagoya Univ., Nagoya, 464-01, Japan
SOURCE: Heterocycles (1998), 47(1), 375-382
CODEN: HTCYAM; ISSN: 0385-5414
PUBLISHER: Japan Institute of Heterocyclic Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 128:270591
GI



I

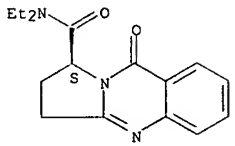
AB The intramol. aza-Wittig reaction of phosphoranes prepared from the pyrrolidinone I [R = OMe] gave the pyrrolo[2,1-c][1,4]benzodiazepine derivative chemoselectively, whereas phosphoranes derived from I [R = NEt2] gave the pyrrolo[2,1-b]quinazoline derivative as the only product.
IT 104769-61-1P 182616-83-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(chemoselectivity in the intramol. aza-Wittig reaction of phosphoranylideneaminobenzoylpyrrolidones)
RN 104769-61-1 CAPLUS
CN Pyrrolo[2,1-b]quinazoline-1-carboxylic acid, 1,2,3,9-tetrahydro-9-oxo-, methyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



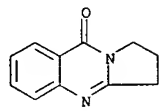
RN 182616-83-7 CAPLUS
CN Pyrrolo[2,1-b]quinazoline-1-carboxamide, N,N-diethyl-1,2,3,9-tetrahydro-9-oxo-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1990:77672 CAPLUS
DOCUMENT NUMBER: 112:77672
TITLE: Quantitative HPLC procedure for studying the cyclocondensation of 2-pyrrolidone with anthranilic acid
AUTHOR(S): Nuriddinov, Kh. R.; Sargazakov, K.; Abdullaev, Sh.
CORPORATE SOURCE: Inst. Khim. Rastit. Veshchestv, USSR
SOURCE: Khimiya Prirodnykh Soedinenii (1989), (2), 293-4
CODEN: KPSUAR; ISSN: 0023-1150
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 112:77672
AB Deoxyvasicinone preparation by title reaction was monitored by HPLC separation and
UV spectrophotometry at 254 nm.
IT 530-53-0P, Deoxyvasicinone
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, by cyclocondensation reaction of anthranilic acid with pyrrolidinone, HPLC anal. of)
RN 530-53-0 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 2,3-dihydro- (CA INDEX NAME)



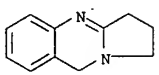
L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1935:33603 CAPLUS
DOCUMENT NUMBER: 29:33603
ORIGINAL REFERENCE NO.: 29:4365a-c
TITLE: Structure of vasicine. III. Position of the hydroxyl group
AUTHOR(S): Morris, R. C.; Hanford, W. E.; Adams, R.
SOURCE: Journal of the American Chemical Society (1935), 57, 951-4
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Oxidation of vasicine (I) with H2O2 in Me2CO gives 2,3-(α-

hydroxytrimethylene)-4-quinazolone (II), m. 213-4°; a mixture with I m. 168-70° and this may be the product reported by Ghose (C. A. 27, 510). Oxidation of desoxyvasicine (III) gives 2,3-trimethylene-4-quinazolone (IV), m. 110-10.5°; benzal derivative, yellow, m. 137-9°. II and SOCl2 give the α-Cl derivative, m. 109°, which is reduced by Zn and AcOH to III. o-(γ-Phenoxybutyrylamino) benzamide, m. 150°; heating to 230-5° gives 2-(γ-phenoxypropyl)-4-quinazolone, light yellow, m. 181°; the action of HBr followed by alkali gives IV. Oxidation of IV with Pb(OAc)4 in C6H6 gives II. These facts indicate that the HO in I is on the CH2 attached to the 2-C atom.

IT 495-59-0, Vasicine, desoxy- 6159-55-3, Vasicine
(oxidation of)

RN 495-59-0 CAPLUS

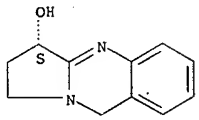
CN Pyrrolo[2,1-b]quinazoline, 1,2,3,9-tetrahydro- (CA INDEX NAME)



RN 6159-55-3 CAPLUS

CN Pyrrolo[2,1-b]quinazolin-3-ol, 1,2,3,9-tetrahydro-, (3S)- (9CI) (CA INDEX NAME)

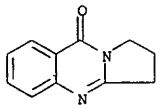
Absolute stereochemistry.



IT 530-53-0P, Pyrrolo[2,1-b]quinazolin-9(1)-one, 2,3-dihydro- 18549-16-1P, Pyrrolo[2,1-b]quinazolin-9(1)-one, 3-benzal-2,3-dihydro- 35387-16-7P, Pyrrolo[2,1-b]quinazolin-9(1)-one, 2,3-dihydro-3-hydroxy- 65636-69-3P, Pyrrolo[2,1-b]quinazolin-9(1)-one, 3-chloro-2,3-dihydro-
RL: PREP (Preparation)
(preparation of)

RN 530-53-0 CAPLUS

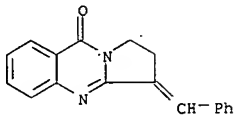
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 2,3-dihydro- (CA INDEX NAME)



RN 18549-16-1 CAPLUS

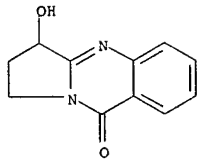
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 2,3-dihydro-3-(phenylmethylene)- (9CI)

(CA INDEX NAME)



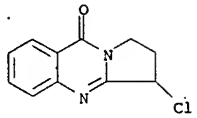
RN 35387-16-7 CAPLUS

CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 2,3-dihydro-3-hydroxy- (CA INDEX NAME)



RN 65636-69-3 CAPLUS

CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 3-chloro-2,3-dihydro- (9CI) (CA INDEX NAME)



L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1935:33602 CAPLUS

DOCUMENT NUMBER: 29:33602

ORIGINAL REFERENCE NO.: 29:4364g-i,4365a

TITLE: Structure of vasicine. II. Synthesis of desoxyvasicine

AUTHOR(S): Hanford, W. E.; Adams, Roger

SOURCE: Journal of the American Chemical Society (1935), 57, 921-4
CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

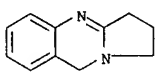
LANGUAGE: Unavailable

AB cf. C. A. 29, 797.3. PhO(CH2)3CO2H, through the chloride, b20 154-6°, yields the amide, m. 113°; the o-nitrobenzylamide m. 75-6° (83.4% yield); catalytic reduction gives the o-aminobenzylamide, m. 97.5-8° (98.5% yield); heating at 270° for 30 min. gives 2-γ-phenoxypropyl-3,4-

dihydroquinazoline, m. 111.5-12.5° (50%); replacement of the PhO group by Br(HBr) and the action of alkali gives 2,3-trimethylene-3,4-dihydroquinazoline(desoxyvasicine) (I), m. 96.5-7.5°; HCl salt, m. 260° (246° on block); picrate, m. 205-6°; oxalate, m. 234° (block); benzal derivative, yellow, m. 161-3°. The preparation of I from chlorodesoxyvasicine is described; I-is obtained from the Zn complex by the action of NH4OH; I is hygroscopic and in a few min. the m. p. of the anhydrous material drops several degrees. γ-Chlorobutyric benzylamide, m. 68° (64% yield); alkali gives N-benzylpyrrolidone, b2 122.5-3°, d2020 1.0983, nD20 1.5570, yielding with concentrated HCl γ-benzylaminobutyric acid-HCl, m. 158-61°. The o-nitrobenzylamide, m. 73° (94% yield), yields N-o-nitrobenzylpyrrolidone, light yellow, m. 100° (14% yield); the NH2 derivative, m. 63-5°; heating at 245-55° gives unchanged material but no I.

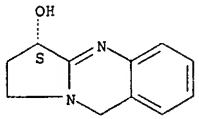
IT 495-59-0P, Desoxyvasicine 6159-55-3P, Vasicine 35387-16-7P, Pyrrolo[2,1-b]quinazolin-9(1)-one, 2,3-dihydro-3-hydroxy-
RL: PREP (Preparation)
(preparation of)

RN 495-59-0 CAPLUS
CN Pyrrolo[2,1-b]quinazoline, 1,2,3,9-tetrahydro- (CA INDEX NAME)

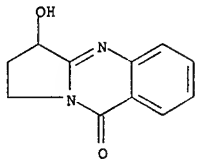


RN 6159-55-3 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-3-ol, 1,2,3,9-tetrahydro-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

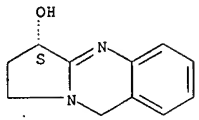


RN 35387-16-7 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-9(1H)-one, 2,3-dihydro-3-hydroxy- (CA INDEX NAME)



L4 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1935:30926 CAPLUS
DOCUMENT NUMBER: 29:30926
ORIGINAL REFERENCE NO.: 29:4015i,4016a-c
TITLE: Synthesis and constitution of peganine (vasicine)
AUTHOR(S): Spath, Ernst; Kuffner, Friedrich; Platzer, Norbert
SOURCE: Berichte der Deutschen Chemischen Gesellschaft [Abteilung] B: Abhandlungen (1935), 68B, 699-702
CODEN: BDCBAD; ISSN: 0365-9488
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB cf. C. A. 29, 3678.7. It has been shown that peganine is a 3-, 2- or 8-HO derivative of That it is the 3-HO derivative is shown by the following synthesis:
Me 4-phthalimidobutyrate, b. 85-8°, obtained in 54.1% yield from Me 4- bromobutyrate and C6H4(CO)2NK in xylene at 190-200°, yields with H2SO4 57.9% of the free acid, m. 113-15°; this with red P and Br and subsequent treatment with BaCO3 in boiling water gives 80.1% 4-phthalimido-2- hydroxybutyric acid, m. 147-8°, which is hydrolyzed with 25% HCl at 100° to the amino acid and esterified with HCl-MeOH to the Me ester; the ester is condensed with o-O2NC6H4CH2Cl, yielding 3-hydroxy-2-pyrrolidone, m. 84-5°, and 1-o-nitrobenzyl-3-hydroxypyrrolidone, m. 150-1°, which is reduced by SnCl2-AcOH-HCl to peganine, m. 211-12°, does not depress the m. p. of the natural alkaloid.
IT 6159-55-3, Peganine
(constitution of)
RN 6159-55-3 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-3-ol, 1,2,3,9-tetrahydro-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

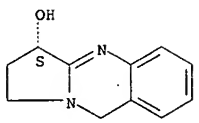


L4 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1935:28312 CAPLUS
DOCUMENT NUMBER: 29:28312
ORIGINAL REFERENCE NO.: 29:3678g-i,3679a-c
TITLE: Constitution of peganine (vasicine)
AUTHOR(S): Spath, Ernst; Kuffner, Friedrich; Platzer, Norbert
SOURCE: Berichte der Deutschen Chemischen Gesellschaft [Abteilung] B: Abhandlungen (1935), 68B, 497-501
CODEN: BDCBAD; ISSN: 0365-9488
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB cf. C. A. 28, 7259.2; Narang and Ray, C. A. 28, 4425.8. Direct comparison of peganine (I) with a sample of N. and R.'s original vasicine proved that

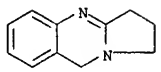
the substances were identical; after sublimation in a high vacuum they had the same m. ps. and mixed m. ps. A weak point in the structure 3-allyl-4-hydroxy-3,4-di-hydroquinazoline (II) for I which was given the preference in an earlier paper (C. A. 28, 1704.9) was that the supposed 3-allyl group could not be hydrogenated catalytically, and the structures III and IV were also suggested as possibilities. 3-Allyl-1,2,3,4-tetrahydroquinazoline, m. 69-70° (Paal and Stollberg, J. prakt. Chemical 48, 569 (1893)), proved not to be identical with the reduction product of I; I can therefore not have the structure II. Reynolds and Robinson (C. A. 28, 6442.1) came to the same conclusion; they give the preference to structure III. To clear up the question of the structure of the skeleton of I, the authors synthesized the base V by condensing Me 4-aminobutyrate (obtained by refluxing pyrrolidone with aqueous Ba(OH)2 and esterflying the product with MeOH-HCl) with o-O2NC6H4CH2Cl, and reducing the resulting N-(o-nitrobenzyl)pyrrolidone, m. 102-3°, b0.01 150-60° (air bath temperature), with SnCl2-HCl to the amino compound, b0.01 130-5° (bath temperature), m. 74.5-5.5°, which was smoothly converted by boiling POCl3 into V, b0.02 100° (bath temperature), m. 99-100° in evacuated capillaries. The structure of V, which is also obtained from chlorodesoxypeganine with Zn dust in acids, was proved by reduction to the 1,10-dihydro derivative, m. 71-2° (evacuated tubes) (Lewin, Arch. exptl. Path. Pharmakol. 34, 374 (1894)). I is to be considered as a HO derivative of V; the HO in position 3, as shown in formula IV, would most simply explain the reactions of I, although formulas with the HO at 2 or 5 are equally plausible. Efforts will be made to determine this point definitely by synthesis.

IT 6159-55-3, Peganine
(constitution of)
RN 6159-55-3 CAPLUS
CN Pyrrolo[2,1-b]quinazolin-3-ol, 1,2,3,9-tetrahydro-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 495-59-0P, Pyrrolo[2,1-b]quinazoline, 1,2,3,9-tetrahydro-
RL: PREP (Preparation)
(preparation of)
RN 495-59-0 CAPLUS
CN Pyrrolo[2,1-b]quinazoline, 1,2,3,9-tetrahydro- (CA INDEX NAME)



=> d his

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FILE 'REGISTRY' ENTERED AT 12:57:07 ON 31 JUL 2007
L1 STRUCTURE UPLOADED
L2 3551 S L1 FULL

FILE 'CAPLUS' ENTERED AT 12:57:32 ON 31 JUL 2007
L3 1143 S L2 FULL
L4 8 S L3 AND 2-PYRROLIDONE

10/544,265 CASREACT

~~10/513699~~

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NEWS 3	MAR 16	CASREACT coverage extended
NEWS 4	MAR 20	MARPAT now updated daily
NEWS 5	MAR 22	LWPI reloaded
NEWS 6	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS 7	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS 8	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS 9	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS 10	APR 30	CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 11	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS 12	MAY 01	New CAS web site launched
NEWS 13	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 14	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 15	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS 16	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS 17	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS 18	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents
NEWS 19	JUN 27	CA/CAplus enhanced with pre-1967 CAS Registry Numbers
NEWS 20	JUN 29	STN Viewer now available
NEWS 21	JUN 29	STN Express, Version 8.2, now available
NEWS 22	JUL 02	LEMBASE coverage updated
NEWS 23	JUL 02	LMEDLINE coverage updated
NEWS 24	JUL 02	SCISEARCH enhanced with complete author names
NEWS 25	JUL 02	CHEMCATS accession numbers revised
NEWS 26	JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS 27	JUL 16	CAplus enhanced with French and German abstracts
NEWS 28	JUL 18	CA/CAplus patent coverage enhanced
NEWS 29	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 30	JUL 30	USGENE now available on STN

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,

<12/04/2007> Erich Leese

CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

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FILE 'HOME' ENTERED AT 12:39:15 ON 31 JUL 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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DICTIONARY FILE UPDATES: 30 JUL 2007 HIGHEST RN 943719-65-1

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L1 STRUCTURE UPLOADED

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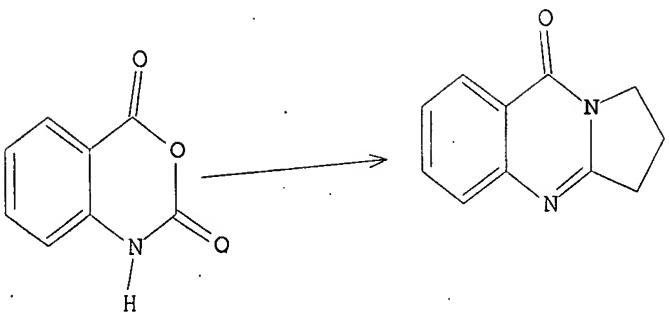

Structure attributes must be viewed using STN Express query preparation.

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COST IN U.S. DOLLARS

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FULL ESTIMATED COST	0.45	0.66

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FILE CONTENT:1840 - 28 Jul 2007 VOL 147 ISS 6

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=>
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L2 STRUCTURE UPLOADED

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FULL SEARCH INITIATED 12:41:03 FILE 'CASREACT'
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100.0% DONE 159 VERIFIED 2 HIT RXNS 2 DOCS
SEARCH TIME: 00.00.01

<12/04/2007> Erich Leese

L3 2 SEA SSS FUL L2 (2 REACTIONS)

=> d ibib abs fhit tot

INSTANT CASE

L3 ANSWER 1 OF 2 CASREACT COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 141:207415 CASREACT
TITLE: Methods for producing quinazoline alkaloids
INVENTOR(S): Moormann, Joachim; Hoffmann, Hans-Rainer; Matusch, Rudolf
PATENT ASSIGNEE(S): HF Arzneimittelforschung G.m.b.H., Germany
SOURCE: PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004069836	A1	20040819	WO 2004-EP485	20040122
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10304141	A1	20040826	DE 2003-10304141	20030203
DE 10304141	B4	20060309		
AU 2004208873	A1	20040819	AU 2004-208873	20040122
CA 2514945	A1	20040819	CA 2004-2514945	20040122
EP 1590351	A1	20051102	EP 2004-704202	20040122
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2004007012	A	20060110	BR 2004-7012	20040122
CN 1745084	A	20060308	CN 2004-80003418	20040122
JP 2006516578	T	20060706	JP 2006-501573	20040122
NO 2005003689	A	20050729	NO 2005-3689	20050729
MX 2005PA08179	A	20060217	MX 2005-PA8179	20050729
US 2006084669	A1	20060420	US 2005-544265	20050802
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			WO 2004-EP485	20040122

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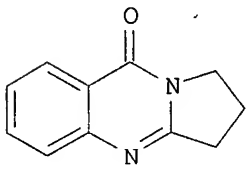
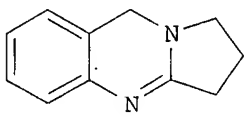


I

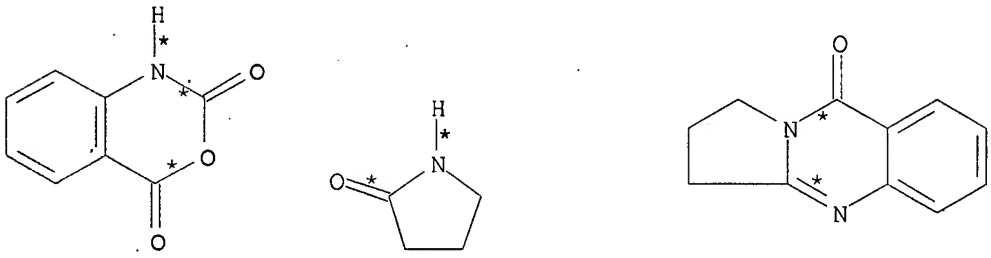


II

<12/04/2007> Erich Leese

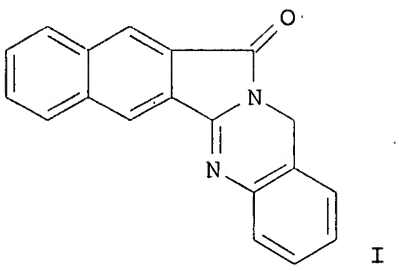
AB The invention relates to a method for producing alkaloid (I) by reacting isatoic anhydride with 2-pyrrolidone, whereby a surplus of 2-pyrrolidone, in relation to isatoic anhydride, is used. The invention also relates to a method for producing alkaloid (II), comprised of production of I, reduction reaction to obtain II in the form of a salt and release of II from the salt.

RX(1) OF 6 A + B ===> C...



RX(1) RCT A 118-48-9, B 616-45-5
PRO C 530-53-0
CON SUBSTAGE(1) room temperature -> 100 deg C
SUBSTAGE(2) 1 hour, 100 deg C
SUBSTAGE(3) 5 hours, 155 - 160 deg C
SUBSTAGE(4) 170 - 180 deg C
SUBSTAGE(5) 180 deg C -> 50 deg C
SUBSTAGE(6) 50 - 100 hours, room temperature
NTE no solvent

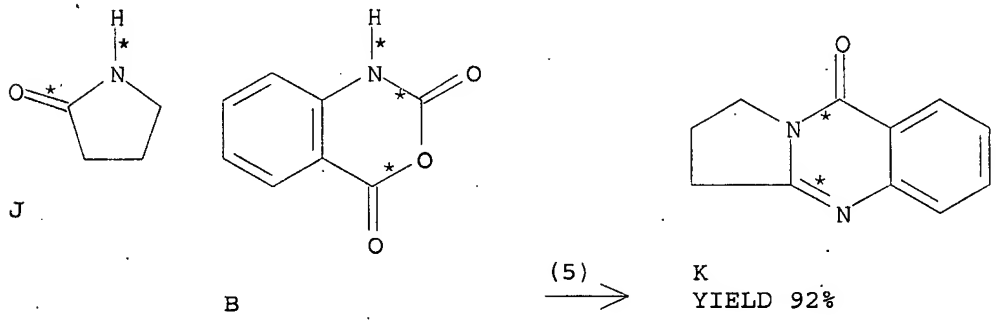
L3 ANSWER 2 OF 2 CASREACT COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 137:93881 CASREACT
TITLE: Microwave-assisted rapid synthesis of the cytotoxic alkaloid luotonin A
AUTHOR(S): Yadav, J. S.; Reddy, B. V. S.
CORPORATE SOURCE: Organic Chemistry Division-I, Indian Institute of Chemical Technology, Hyderabad, 500007, India
SOURCE: Tetrahedron Letters (2002), 43(10), 1905-1907
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB The total synthesis of the cytotoxic alkaloid luotonin A (I) was achieved for the first time in high yields by the cyclocondensation of 3-oxo-1H-pyrrolo[3,4-b]quinoline with isatoic anhydride in solvent-free conditions under microwave irradiation

RX(5) OF 5 J + B ===> K



J

B

(5)

K
YIELD 92%

RX(5) RCT J 616-45-5, B 118-48-9
PRO K 530-53-0
NTE microwave irradn.

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT